

GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: January 8, 2002, 21:37:54 ; Search time 108.09 Seconds
(without alignments)
10802.821 Million cell updates/sec

Title: US-09-635-521A-1

Perfect score: 1362

Sequence: 1 atggctccaccgctctccc.....ttcaggagcgtgaagtttga 1362

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 930621 seqs, 428662619 residues

number of hits satisfying chosen parameters: 1861242

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : - N_Geneseq_1101.*

1: /SIDS2/gcgdata/geneseq/geneseq/NA1980.DAT.*
2: /SIDS2/gcgdata/geneseq/geneseq/NA1981.DAT.*
3: /SIDS2/gcgdata/geneseq/geneseq/NA1982.DAT.*
4: /SIDS2/gcgdata/geneseq/geneseq/NA1983.DAT.*
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21: /SIDS2/gcgdata/geneseq/geneseq/NA2000.DAT.*
22: /SIDS2/gcgdata/geneseq/geneseq/NA2001.DAT.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	508.6	37.3	1953	21	AAF22400 Human secreted pro
2	508.6	37.3	1956	22	AAF64188 Human secreted pro
3	497.6	36.5	1890	22	AAF93845 Human cDNA encodin
4	236.6	17.4	587	22	AAF94186 Primer specific fo
5	165.2	12.1	1254	17	AAT33127 Human neurotensin
6	158.6	11.6	444	22	AAH50766 Human tumour assoc
7	102.6	7.5	1203	22	AAF85448 Nucleotide sequenc
8	97.6	7.2	1551	21	AAZ49491 Human NT2IP protei
9	97.6	7.2	1575	19	AAV07655 cDNA encoding a hu
10	97.6	7.2	2850	21	AAZ49492 Human NT2IP protei
11	96.2	7.1	1092	21	AAZ45405 DNA encoding the p

12	96.2	7.1	1092	22	AAF85450 Nucleotide sequenc
13	95.8	7.0	1342	19	AAV62449 Human neurotensin
14	89.4	6.6	729	22	AAF85107 Nucleotide sequenc
15	89.4	6.6	801	22	AAH50977 Human nPCR15 codi
16	89.4	6.6	1245	22	AAH43072 Nucleotide sequenc
17	89.4	6.6	1245	22	AAH43075 Nucleotide sequenc
18	89.4	6.6	1248	21	AAH43075 Nucleotide sequenc
19	89.4	6.6	1248	21	AAH43075 Nucleotide sequenc
20	89.4	6.6	1248	21	AAH43075 Nucleotide sequenc
21	89.4	6.6	1248	21	AAH43075 Nucleotide sequenc
22	89.4	6.6	1248	21	AAH43075 Nucleotide sequenc
23	89.4	6.6	1248	21	AAH43075 Nucleotide sequenc
24	89.4	6.6	1248	21	AAH43075 Nucleotide sequenc
25	89.4	6.6	1248	21	AAH43075 Nucleotide sequenc
26	89.4	6.6	1248	21	AAH43075 Nucleotide sequenc
27	89.4	6.6	1248	21	AAH43075 Nucleotide sequenc
28	89.4	6.6	1248	21	AAH43075 Nucleotide sequenc
29	82	6.0	1088	18	AAH68664 Human growth hormo
30	82	6.0	1088	18	AAH68664 Human growth hormo
31	82	6.0	1088	18	AAH68664 Human growth hormo
32	82	6.0	1088	18	AAH68664 Human growth hormo
33	82	6.0	1088	18	AAH68664 Human growth hormo
34	82	6.0	1088	18	AAH68664 Human growth hormo
35	82	6.0	1088	18	AAH68664 Human growth hormo
36	82	6.0	1088	18	AAH68664 Human growth hormo
37	82	6.0	1088	18	AAH68664 Human growth hormo
38	82	6.0	1088	18	AAH68664 Human growth hormo
39	82	6.0	1088	18	AAH68664 Human growth hormo
40	82	6.0	1088	18	AAH68664 Human growth hormo
41	82	6.0	1088	18	AAH68664 Human growth hormo
42	82	6.0	1088	18	AAH68664 Human growth hormo
43	82	6.0	1088	18	AAH68664 Human growth hormo
44	82	6.0	1088	18	AAH68664 Human growth hormo
45	82	6.0	1088	18	AAH68664 Human growth hormo

ALIGNMENTS

RESULT 1	
AAF22400	
ID AAF22400 standard; cDNA; 1953 BP.	
XX AC AAF22400;	
XX AC AAF22400;	
XX DT 26-MAR-2001 (first entry)	
XX DE Human secreted protein gene 28 SEQ ID NO:38.	
XX KW Human; secreted protein; diagnosis; immunosuppressive; antiarthritic;	
XX KW antirheumatic; antiproliferative; cytostatic; cardiant; vasotropic;	
XX KW cerebroprotective; neurotropic; neuroprotective; antibacterial; virucide;	
XX KW fungicide; ophthalmological; gene therapy; autoimmune disease; neoplasm;	
XX KW rheumatoid arthritis; hyperproliferative disorder; cardiac arrest;	
XX KW cardiovascular disorder; cerebrovascular disorder; cerebral ischaemia;	
XX KW angiogenesis; nervous system disorder; Alzheimer's disease; infection;	
XX KW ocular disorder; corneal infection; wound healing; skin aging;	
XX KW food additive; preservative; ss.	
XX OS Homo sapiens.	
XX PN WO2000061629-A1.	
XX PD 19-OCT-2000.	
XX PF 06-APR-2000; 2000WO-US09071.	
XX PR 09-APR-1999; 98US-0128694.	
XX PR 20-JAN-2000; 2000US-0176931.	
XX PA (HUMA-) HUMAN GENOME SCI INC.	
XX PA (ROSE/) ROSEN C A.	

1

XX Key Location/Qualifiers
 FH 1..1203
 FT /*tag= a
 FT /note= "motilin receptor"
 XX WO200132710-A1.
 XX 10-MAY-2001.
 XX 25-OCT-2000; 2000WO-US29426.
 XX 29-OCT-1999; 99US-0162264.
 XX (MERI) MERCK & CO INC.
 XX Tan C, McKee K;
 XX WPI; 2001-343479/36.
 XX -PSDB; AAB68477.
 XX Novel polypeptides related to dog and rabbit motilin receptor
 PT polypeptide, comprising unique regions from dog and motilin receptor
 PT amino acid sequence, useful for identifying compounds for treating
 PT diarrhoea in humans
 XX Claim 18; Page 18-19; 42pp; English.
 XX The present sequence encodes a rabbit motilin receptor polypeptide.
 CC The specification describes a unique sequence present in exon 1 of
 CC the dog motilin receptor, which is not present in human or Sphaeroides
 CC nephelus 75E7 motilin receptor sequences. The unique nucleic acid
 CC sequence is useful for measuring the ability of a compound to affect
 CC motilin receptor activity. Motilin receptor polynucleotides and
 CC polypeptides are used to identify therapeutic compounds which are
 CC useful for treating gastrointestinal diseases and disorders such as
 CC gastric motility disorders, gastroparesis, irritable bowel syndrome,
 CC and diarrhoea.
 XX
 XX Sequence 1203 BP; 154 A; 423 C; 403 G; 223 T; 0 other;
 XX
 Query Match 7.5%; Score 102.6; DB 22; Length 1203;
 Best Local Similarity 47.68; Pred. No. 6.9e-15;
 Matches 408; Conservative 0; Mismatches 434; Indels 15; Gaps 3;
 QY 240 cttggtgtctcctcgcgcatgcccagtgaggtgtcagacatcattcgtggaatccctgac 299
 DE 252 cctgctcattcgtcgggtgccccttcgacctgtacg---cctgtggcgctcgagcc 308
 QY 300 cactgcaggtacacctgtctcgtcaagctgcacatttctccttcgagggcctgcagcta 359
 DB 309 cttggtgttcgagacgtgctcgtccgctcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtc 368
 QY 360 cgtcagctgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgt 419
 DB 369 cgt 428
 QY 420 cttcaggtacaaaggctgtgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgt 479
 DB 429 gctcgtggtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgt 488
 QY 480 ggtcaccctcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgt 539
 DB 489 ggtcgtggtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgt 548
 QY 540 ggtgaaagtgcacagccggtgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgt 599
 DB 549 cgt 608
 QY 600 gacgcccagacatcacaatgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgt 659
 DB 609 cctggtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgt 668

QY 560 ccagtcagcatcttcggtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgt 719
 DB 669 ccggtcagc 728
 QY 720 catgtgctggaacatgatgcaggtgtcctatgaaagccagaaagggcgtcgtcgtcgtcgtcgt 779
 DB 729 cttttcctcctcctcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgt 788
 QY 780 cagcgcgcctcgcagctgaggaagtcgagagcgaagagagcagcagcagcagcagcagcagcag 839
 DB 789 gcgggtcgcgggc 848
 QY 840 gaccatcatcttcgtgaggtgattgttgacattggccgtatgctggatgctggatgctggatgct 899
 DB 849 gaccgtcgcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgt 908
 QY 900 gattcggaggtatgctgctgctgctgctgctgctgctgctgctgctgctgctgctgctgctgct 959
 DB 909 cgttgccaggtatcttata-----cataaacacacacacacacacacacacacacacacacac 962
 QY 960 ggcgtacatgacatcctcctcctcctcctcctcctcctcctcctcctcctcctcctcctcctc 1019
 DB 963 ccagtcatttttaacattgctgcgcgt-----gcagcttttctacctgagtgctgctcctc 1016
 QY 1020 cccgctcctgtacacggtgtcctcctcctcctcctcctcctcctcctcctcctcctcctcct 1079
 DB 1017 cccaatcctctacaacctctctcctcctcctcctcctcctcctcctcctcctcctcctcctcct 1076
 QY 1080 ctgcccctcgtcgtcgc 1096
 DB 1077 cgaagc 1093
 XX
 XX AA249491;
 XX
 XX 04-APR-2000 (first entry)
 XX Human NT2LP protein encoding b form splice variant cDNA.
 XX Human; NT2LP; G-protein coupled receptor; neurotensin-2 receptor; NT2;
 KW drug screening; diagnosis; allelic screening; pharmacogenetic testing;
 KW forensic biology; chromosome mapping; tissue typing; primer; probe; pain;
 KW analgesic; splice variant; ss.
 XX Homo sapiens.
 OS
 XX Key Location/Qualifiers
 FH 57..1290
 FT /*tag= a
 FT /product= "NT2LP protein"
 XX
 XX WO958641-A2.
 XX 18-NOV-1999. 99WO-US10311.
 XX 11-MAY-1999; 98US-0076313.
 XX 11-MAY-1998; 98US-0223492.
 XX 30-DEC-1998; 98US-0223492.
 XX (MILL-) MILLENNIUM PHARM INC.
 XX Curtis R, Glucksmann MA;
 XX WPI; 2000-126365/11.
 XX P-PSDB; AAY44580.
 XX New G-protein coupled receptor NT2LP used to treat diseases,
 XX

PT pathologies or disorders such as pain -

ps Claim 7: Fig 2: 102pp: English:

The present cDNA sequence is the b form splice variant encoding human G-protein coupled receptor, NT2LP which is expressed in brain and ovaries. It is derived from human brain cDNA library. NT2LP participates in signalling pathways in cells that express this protein and shows homology to neurotensin-2 (NT2) receptors. This sequence can be used for drug screening, diagnosis, allelic screening, pharmacogenetic testing, forensic biology, chromosome mapping, tissue typing, detection of genetic alterations in NT2LP gene and as source of primers and probes. It has analgesic activity and can be used to treat disorders characterised by aberrant NT2LP expression or activity e.g. pain.

XX
SO
Sequence 1551 BP; 271 A; 522 C; 462 G; 296 T; 0 other;

Query Match	7.2%	Score 97.6;	DB 21;	Length 1551;
% Local Similarity	49.2%;	Pred. No. 1.1e-13;		
Matches 256: Conservative	0: Mismatches 264;	Indels 0;		

[illegible]

RESULT 9

AAV07655

ID AAV07655 standard; cDNA; 1575 BP.

AAV07655:

XX
DT
04-DEC-1998 (first entry)

XX DE CDNA encoding a human type 2 neurotensin receptor protein.

XX Human; neurotensin type 2 receptor; hNT-R2; treatment; hormonal;
KW neurological disorder; neurotensin; thermo-regulation disorder; stress;
KW muscular contraction disorder; schizophrenia; analgesic; antipyretic; ss.

XX
OS Homo sapiens.

XX	Key	Location/Qualifiers
FH		

EH	key	location/
FT	CDS	37..1269

$$\frac{1}{\sqrt{2\pi}} \int_{-\infty}^{\infty} e^{-\frac{1}{2}x^2} dx = 1$$

```

FT
/
/product= neurotensin type 2 receptor

```

FR2760750-A1.

XX
PD 18-SEP-1998.

XX
DE 17-MAP-1997. 97ER-000320A

XX
15 MAR 1967
0755-000330A

XX

XX
XX
XX

XX
 Cupac B, Cimarron 4/

DR WPI; 1998-508932/4

XX New human neurotensin type 2 receptor polypeptide - obtained by
PT recombinant methods, used for treating hormonal or neurological
PT disorders and in screening and diagnostic methods
PT
F 3055, 84800103.

XX
ps
Claim 3. Pages 34-36: 50pp: French.

The present sequence encodes a constituent polypeptide of human
 neurotensin type 2 receptor (hNT-R2). The protein is a membrane
 protein with 7 transmembrane domains. The products are used in
 medicaments for treating hormonal or neurological disorders
 involving natural hNT-R2 receptor or neurotensin. The medicaments
 are useful for treating thermo-regulation disorders, stress,
 muscular contraction disorders (especially in digestive tract smooth
 muscle), pain and (due to action on the dopaminergic system)
 neurological disorders such as schizophrenia, especially as analgesics
 and antipyretics.

XX sequence 1575 BP: 288 A; 519 C; 463 G; 305 T; 0 other; 50

Query Match	7.2%;	Score 97.6;	DB 19;	Length 1575;
Best Local Similarity	49.2%;	Pred. NO. 1.1e-13;		
Matches 256;	Conservative	0;	Mismatches 264;	Indels 0;

Qy	52	agtcattgccccagtttaggtggccacctggatcaaaatcaccttattcttggtgtaac	111
Db	88	agctggacgcccggctggggctgggaactgcctctggccaaagtgctgttcaccgcg	147
Qy	112	ctgatcatctctgtagtgggcctctggggaaacagcgccaccattcgggtaccacaggtg	171
Db	148	ctctacgcactcatctctgggcgctgggcgcggcggaatgcgctgctccgtgcactgggtg	207
Qy	172	ctgcagaagaagatgatactctgcagaaggagggtgcacagacacaatggtagtttggctgc	231
Db	208	ctgaaggcgcggcgccggcgcgccggggcgctgcgccaccacgtgctcagctggcgctc	267
Qy	232	tcggacatcttggtctccctcatcgcgcattcccatgggtcttcacagcatcatctggaaat	291
Db	268	gcggggctctgtcgtctgtctgtgtcggcggtccgggtggagctctacagcttcgtgtgttc	327
Qy	292	ccccgtaccacgtccagctacacccctgtcctgcgaagctgcacacttctctctcaggcc	351
Db	328	cactacccttggtgcttcggcgacctggctgcgcggctactactctgtgcacagctg	387
Qy	352	tgcagctacgtctacgtctgcagctgctgcacactcagcttttgagcgctacatcgccatc	411
Db	388	tgcgcctacgccacgggtgcttgagcgtggcgaaggcctgagcgagcgctgcctagccgtg	447
Qy	412	tgtcaccccttcaggtacaaaggctgtgtcgggaccttgccagctggaagctgtgtatggcg	471

Db	621	cct	623	
Db	164	tgggggtcattggcaatgtcctctgtgtgtgcctgggtgattctgcagcaccaggtatgaaga	223	
Qy	197	aggaggtgacagaccacatggtgagtttgcttgcgcagacatcttgggtgttcctcatcg	256	
Db	224	cgccaccacactactactctcctcagcctggcggtctctgacctctgttctgtctcttg	283	
Qy	257	gcattgcccattgagttctacagactcatctggaatccctgaccacgtccagctacaccc	316	
Db	284	gaatgccccctggaggtctatgagatgtggcgaactaacctttctgttgcgggc---ccg	340	
Qy	317	tgctctgcaagctgcacactttctctcttcaggagcctgcagctacgtctgtgtgcacg	376	
Db	341	tgggtgtctactcaagcggccctcttggagaccgtgtgtctgcctccatctcagca	400	
Qy	377	tgtgactcagctttgagcgtacatcgccatctgtcaccccttcagggtacaggtcg	436	
Db	401	tcaccacgtcagcgtggagcgtacgtggccatctcaccctgtccgcgcacaaactgc	460	
Qy	437	tgtcggggaccttggcaggtgaagctgctgattggctgtgtgtgtgtgtgtgtgtgtgt	496	
Db	461	agagcacccggcgccggccctcaggtacccctcggtatctgtgtgtgtgtgtgtgtgt	520	
Qy	497	tggcactgccc	507	
Db	521	tctcctgccc	531	
RESULT 15				
AAH50977/c				
ID	AAH50977 standard; DNA; 801 BP.			
XX				
AC	AAH50977;			
XX				
DT	28-AUG-2001 (first entry)			
XX	Human nPCR15 coding sequence.			
XX				
KW	G protein-coupled receptor; nPCR; seven transmembrane receptor;			
KW	signal transduction; schizophrenia; thyroid disorder; renal failure;			
KW	rheumatoid arthritis; CNS disorder; infection; metabolic disease;			
KW	cardiovascular disease; proliferative disorder; hormonal disorder;			
KW	neurological disorder; neuronal disorder; Alzheimer's disease; cancer;			
KW	attention deficit-hyperactivity disorder/attention deficit disorder;			
KW	Parkinson's disease; migraine; senile dementia; inflammatory disease;			
KW	rheumatoid arthritis; autoimmune disorder; respiratory ailment;			
OS	neuroprotective; ds.			
XX	Homo sapiens.			
XX				
PN	WO200136473-A2.			
XX				
PD	25-MAY-2001.			
XX				
PF	16-NOV-2000; 2000WO-US31581.			
XX				
PR	16-NOV-1999; 99US-0165838.			
PR	17-NOV-1999; 99US-0166071.			
PR	19-NOV-1999; 99US-0166678.			
PR	28-DEC-1999; 99US-0173396.			
PR	22-FEB-2000; 2000US-0184129.			
PR	28-FEB-2000; 2000US-0185421.			
PR	28-FEB-2000; 2000US-0185554.			
PR	02-MAR-2000; 2000US-0186530.			
PR	03-MAR-2000; 2000US-0186811.			
PR	09-MAR-2000; 2000US-0188114.			
PR	17-MAR-2000; 2000US-0190310.			
PR	21-MAR-2000; 2000US-0190800.			
PR	20-APR-2000; 2000US-0198568.			
PR	02-MAY-2000; 2000US-0201190.			
PR	08-MAY-2000; 2000US-0203111.			
PR	25-MAY-2000; 2000US-0207094.			
XX				
PA	(PHAA) PHARMACIA & UPJOHN CO.			
Query Match				
Best Local Similarity 54.4%; Pred. No. 7.7e-12; Length 729;				
Matches 202; Conservative 0; Mismatches 166; Indels 3; Gaps 1;				
Qy	137	tggggaacagcgccaccattcggtcaccaggtgctgcagaaagagatacttcaga	196	

